

SIEMENS



SINOVA

low-voltage electrical products

Price List สำหรับผลิตภัณฑ์ไฟฟ้าแรงดันต่ำ
และอุปกรณ์ควบคุมในอุตสาหกรรม

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SINOVA The Power of **Simplicity**



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3WJ

air circuit breakers

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Selection & ordering data

MLFB Structure: Basic configuration for AC circuit breakers and AC non-automatic circuit breakers.

3WJ1				5	6	7	8	9	10	11	12	13	14	15	16	Z
Switching device																
Frame size	1	2		1	2											
Max. rated current $I_{n\ max}$	800A	1000A	1250A	1600A	2000A	2500A	3200A	4000A								
Breaking capacity I_{cu}/I_{cs} (kA), I_{cw} for 1s (kA) at 440V AC																
AC non-automatic circuit breakers																
Circuit breakers, display with current metering																
Electronic Trip Unit (ETU)																
Number of poles	Fixed-mounted															
	Without position signaling switch and without shutter															
	Without position signaling switch and with shutter															
Connection																
Number of mounting	Fixed-mounted ⁽¹⁾															
	Without guide frame															
	Vertical															
	Horizontal															
	Vertical on top / horizontal at the bottom															
	Horizontal on top / vertical at the bottom															
	Without guide frame															
	Vertical															
	Horizontal															
	Vertical on top / horizontal at the bottom															
	Horizontal on top / vertical at the bottom															
Spring charging motor (M), auxiliary switches (AUX)																
Without spring charging motor and without auxiliary switches																
Without spring charging motor but with auxiliary switches 2 NO, 2 NC																
Auxiliary switches 2 NO, 2 NC and spring charging motor																
Spring charging motor	24V DC															
Spring charging motor	110-127V AC / 110-125V DC															
Spring charging motor	220-240V AC / 220-250V DC															
Auxiliary switches 4 NO, 4 NC and spring charging motor																
Spring charging motor	24V DC															
Spring charging motor	110-127V AC / 110-125V DC															
Spring charging motor	220-240V AC / 220-250V DC															

Note:

4000A is available for fixed-mounted vertical⁽¹⁾ and withdrawal vertical⁽¹⁾.
Crank Handle is not part of the standard scope of supply, to be ordered as an accessory.

Selection & ordering data

Basic configuration for AC circuit breakers and AC non-automatic circuit breakers.

3WJ1																Z	
	5	6	7	8	9	10	11	12	-	13	14	15	16	-			
Closing coil																	
Without closing coil																A	
Closing coil (CC)																	
Closing coil																B	
Closing coil																C	
Closing coil																D	
1st auxiliary release																	
Without 1st auxiliary release																A	
Shunt trip (ST)																	
Shunt trip																B	
Shunt trip																C	
Shunt trip																D	
Undervoltage release (UVR), instantaneous (≤ 80 ms), short-delay (≤ 200 ms)																	
UVR																E	
UVR																F	
UVR																G	
UVR																H	
Undervoltage release (UVR-t), can be delayed between 0.2 s and 3.2 s																	
UVR-t																J	
UVR-t																K	
UVR-t																L	
2nd auxiliary release																	
Without 2nd auxiliary release																0	
Shunt trip (ST), suitable for continuous duty																	
Shunt trip																1	
Shunt trip																3	
Shunt trip																4	
Z options																	
Door sealing frame (IP41)																T40	
Trip unit cover																F40	
Position signal switch (1x connected, 1x test, 1x disconnected)																R15	
Position signal switch (3x connected, 2x test, 1x disconnected)																R16	
Neutral CT for 4th Pole																F23	
Mutual mechanical interlock - Bowden for fixed breakers with 2m bowden cable																S55	
Mutual mechanical interlock - Bowden for drawout breakers with 2m bowden cable																R55	
Locking systems - Castell																S05	
Door interlock - To prevent the opening of the control cabinet door in the ON position																S30	
Door interlock - To prevent the opening of the control cabinet door in the connected position																R30	
5 digit operating counter																C01	
Ready to close																C22	
Trip signal switch																K07	
Special packaging																P61	

Note:

4000A is available for fixed-mounted vertical ⁽¹⁾ and withdrawal vertical ⁽¹⁾.
Crank Handle is not part of the standard scope of supply, to be ordered as an accessory.

Selection & ordering data

ETU 350WJ LSI						
Size	I Rated	KA	Fixed mounted 3-pole	Unit Price (THB)	Withdrawable 3-pole	Unit Price (THB)
	A		Article No.		Article No.	
I	800	50	3WJ1108-2AE02-1AA0-Z F40+T40	96,840	3WJ1108-2AE32-1AA0-Z F40+T40	121,710
	1000		3WJ1110-2AE02-1AA0-Z F40+T40	100,900	3WJ1110-2AE32-1AA0-Z F40+T40	125,660
	1250		3WJ1112-2AE02-1AA0-Z F40+T40	104,850	3WJ1112-2AE32-1AA0-Z F40+T40	134,500
	1600		3WJ1116-2AE02-1AA0-Z F40+T40	121,710	3WJ1116-2AE32-1AA0-Z F40+T40	145,420
II	2000	55	3WJ1220-2AE02-1AA0-Z F40+T40	133,570	3WJ1220-2AE32-1AA0-Z F40+T40	167,170
	2500		3WJ1225-2AE02-1AA0-Z F40+T40	173,100	3WJ1225-2AE32-1AA0-Z F40+T40	216,580
	3200		3WJ1232-2AE02-1AA0-Z F40+T40	214,600	3WJ1232-2AE32-1AA0-Z F40+T40	264,960
	4000		3WJ1240-2AE01-1AA0-Z F40+T40	318,330	3WJ1240-2AE31-1AA0-Z F40+T40	387,500

ETU 360WJ LSING						
Size	I Rated	KA	Fixed mounted 3-pole	Unit Price (THB)	Withdrawable 3-pole	Unit Price (THB)
	A		Article No.		Article No.	
I	800	50	3WJ1108-2AF02-1AA0-Z F40+T40	125,660	3WJ1108-2AF32-1AA0-Z F40+T40	152,290
	1000		3WJ1110-2AF02-1AA0-Z F40+T40	138,450	3WJ1110-2AF32-1AA0-Z F40+T40	161,240
	1250		3WJ1112-2AF02-1AA0-Z F40+T40	151,350	3WJ1112-2AF32-1AA0-Z F40+T40	183,910
	1600		3WJ1116-2AF02-1AA0-Z F40+T40	162,170	3WJ1116-2AF32-1AA0-Z F40+T40	191,820
II	2000	55	3WJ1220-2AF02-1AA0-Z F40+T40	174,030	3WJ1220-2AF32-1AA0-Z F40+T40	212,630
	2500		3WJ1225-2AF02-1AA0-Z F40+T40	215,540	3WJ1225-2AF32-1AA0-Z F40+T40	261,000
	3200		3WJ1232-2AF02-1AA0-Z F40+T40	255,070	3WJ1232-2AF32-1AA0-Z F40+T40	318,330
	4000		3WJ1240-2AF01-1AA0-Z F40+T40	360,870	3WJ1240-2AF31-1AA0-Z F40+T40	436,920

Note: Door Sealing Frame is included

Selection & ordering data

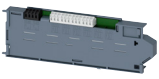
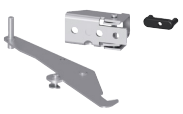
Accessories

Frame size Accessories	Product image	Frame size / A	Type / Description	Article no.	Unit Price (THB)
Trip alarm switch			1 NO Contact	3WJ9111-0AH02	2,600
Auxiliary switch block			2NO+2NC, S1/S2	3WJ9111-0AG04	5,400
			2NO+2NC, S6/S5	3WJ9111-0AG01	5,400
			3NO+1NC, S60/S5	3WJ9111-0AG02	5,400
			4NO+0NC, S60/S61	3WJ9111-0AG03	5,400
Charging motor (M)			24V DC	3WJ9111-0AF01	20,910
			110-127V AC / 110-125V DC	3WJ9111-0AF05	20,910
			220-240V AC / 220-250V DC	3WJ9111-0AF06	20,910
Closing Coil (CC)/ Shunt Trip (ST) - for continuous duty			24V DC	3WJ9111-0AD01	5,360
			110-127V AC / 110-125V DC	3WJ9111-0AD05	5,360
			220-240V AC / 220-250V DC	3WJ9111-0AD06	5,360
Undervoltage Release (UVR): Instantaneous (≤8ms), Short delay (≤200ms)			24V DC	3WJ9111-0AE01	4,740
			110...127V AC / 110...125V DC	3WJ9111-0AE05	4,740
			220...240V AC / 220...250V DC	3WJ9111-0AE06	4,740
			380...415V AC	3WJ9111-0AE07	4,740
Undervoltage Release (UVR-t): with adjustable time delay of 0.2-3.2s			110...127V AC / 110...125V DC	3WJ9111-0AE15	10,610
			220...240V AC / 220...250V DC	3WJ9111-0AE16	10,610
			380...415V AC	3WJ9111-0AE17	10,610
Locking provision against unauthorized closing secured open			Locking provision for Castell locks. The lock must be ordered at the manufacturer.	3WJ9111-0BA31	16,380
			With CES lock	3WJ9111-0BA35	2,060
Mutual mechanical interlock			Bowden cable - 2m	3WJ9111-0BB41	4,530
			Bowden cable - 3m	3WJ9111-0BB42	5,770
			Bowden cable - 4.5m	3WJ9111-0BB43	8,030
			Bowden cable (2m) for fixed-mounted design is necessary for each circuit breaker. Spare-part for Z-option S55	3WJ9111-0BB21	15,970
			Bowden cable (2m) for withdrawable design is necessary for each circuit breaker. Spare-part for Z-option R55.	3WJ9111-0BB22	15,970

Note: The product images in this table list are for visual representation purposes only and may not reflect exact product sizes.

Selection & ordering data

Accessories

Frame size Accessories	Product image	Frame size / A	Type / Description	Article no.	Unit Price (THB)
Key interlocking system			Against paralleling unsynchronized sources for 3 circuit breakers with CES lock. Interlocking in OFF position mounted to front cover 2 identical keys for 3 circuit breakers max. 2 circuit breakers closed	3WJ9111-0BA43	19,160
Crank handle			For withdrawable circuit breakers	3WJ9111-0BC01	6,500
External current sensor for N-conductor		1	Window type (Without copper bar)	3WJ9111-0AA21	13,390
		2	Window type (Without copper bar)	3WJ9111-0AA22	15,550
Operation counter			5-digit operating cycles counter	3WJ9111-0AH04	14,520
Ready-to-close			1 NO contact	3WJ9111-0AH01	4,250
Sealing cap			For OFF push button	3WJ9111-0AP05	300
Protective cover IP55			Not possible in combination with door sealing frame	3WJ9111-0AP03	13,910
Position signaling switch			1x connected, 1x test, 1x disconnected	3WJ9111-0AH12	6,400
			3x connected, 2x test, 1x disconnected	3WJ9111-0AH11	12,800
Mechanical interlock to prevent opening of the circuit breaker compartment door			If ACB is closed - for fixed mounted design and spare part for Z-option S30	3WJ9111-0BB12	18,750
			If ACB is closed - for withdrawable design and spare part for Z-option R30	3WJ9111-0BB13	18,750

Note: The product images in this table list are for visual representation purposes only and may not reflect exact product sizes.

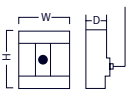


3VJ molded case circuit breakers

SINOVA The Power of **Simplicity**

Technical specifications

3VJ molded case circuit breakers

																					
Type		3VJ10	3VJ10	3VJ11	3VJ12	3VJ13	3VJ14														
Number of poles		1	2/3/4	2/3/4	2/3/4	3/4	3/4														
Frame size		125X	125X	125	250	400	630														
Rated operational current In at 50°C ambient temperature		16-125	16-125	16-125	160-250	320-400	500-630														
Rated operational voltage Use 50/60Hz AC	V	240	415	415	415	415	415														
Insulation voltage	V	800	800	1000	1000	1000	1000														
Impulse voltage	kV	6	6	8	8	8	8														
Suitable for isolation		Yes																			
Utilization category, according to IEC60947-2		A																			
Breaking capacity																					
Short-circuit breaking capacities Icu / Ics rms value, according to IEC60947-2																					
Icu @ AC 415* V-50/60Hz	kA	10	18	25	10	18	25	25	36	55	18	25	36	55	25	36	50	55	36	50	55
Ics @ AC 415* V-50/60Hz	75%		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
Ics @ AC 415* V-50/60Hz#	100%	✓	✓		✓	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Trip units																					
Fixed Thermal Fixed Magnetic (1P/2P/3P/4P MCCBs)	FTFM							■													
Adjustable Thermal Fixed Magnetic (3P/4P MCCBs)	ATFM							■													
Neutral protection in 4P MCCB								100%													
Operating cycles																					
Mechanical		15000	15000	15000	15000	15000	10000														
Electrical @ 415* V AC		5000	5000	5000	5000	5000	4500														
Connection technology																					
Standard connection technology		Screw terminal																			
Overall dimensions																					
Width x Height x Depth		35 x 118 x 68	80 (2P/3P) / 103.5 (4P) x 126 x 68	92 (2P/3P) x 122 (4P) x 150 x 85	107.5 (2P/3P) x 142.5 (4P) x 166 x 85	150 (3P) / 198 (4P) x 260 x 110	150 (3P) / 198 (4P) x 260 x 110														

*240V for 1P MCCBs

3VJ 100%Icu=Ics price is upon request

■ Available

Selection & ordering data

3VJ molded case circuit breakers

Thermal magnetic trip unit, Fixed Thermal Fixed Magnetic (FTFM)

$I_{cs}=75\%I_{cu}$

1-Pole

Frame size	Current In (A)	Icu = 10kA at @240V AC		Icu = 18kA at @240V AC		Icu = 25kA at @240V AC	
		1-Pole - FTFM Article no.	Unit Price (THB)	1-Pole - FTFM Article no.	Unit Price (THB)	1-Pole - FTFM Article no.	Unit Price (THB)
3VJ10 (VJ1 125X)	16A	3VJ1096-0DA12-0AA0	1,900	3VJ1096-1DA12-0AA0	2,690	3VJ1096-3DA12-0AA0	2,920
	20A	3VJ1002-0DA12-0AA0	1,900	3VJ1002-1DA12-0AA0	2,690	3VJ1002-3DA12-0AA0	2,920
	25A	3VJ1092-0DA12-0AA0	1,900	3VJ1092-1DA12-0AA0	2,690	3VJ1092-3DA12-0AA0	2,920
	32A	3VJ1003-0DA12-0AA0	1,900	3VJ1003-1DA12-0AA0	2,690	3VJ1003-3DA12-0AA0	2,920
	40A	3VJ1004-0DA12-0AA0	1,900	3VJ1004-1DA12-0AA0	2,690	3VJ1004-3DA12-0AA0	2,920
	50A	3VJ1005-0DA12-0AA0	1,900	3VJ1005-1DA12-0AA0	2,690	3VJ1005-3DA12-0AA0	2,920
	63A	3VJ1006-0DA12-0AA0	1,900	3VJ1006-1DA12-0AA0	2,690	3VJ1006-3DA12-0AA0	2,920
	80A	3VJ1008-0DA12-0AA0	1,900	3VJ1008-1DA12-0AA0	2,690	3VJ1008-3DA12-0AA0	2,920
	100A	3VJ1010-0DA12-0AA0	1,900	3VJ1010-1DA12-0AA0	2,690	3VJ1010-3DA12-0AA0	2,920
	125A	3VJ1012-0DA12-0AA0	1,900	3VJ1012-1DA12-0AA0	2,860	3VJ1012-3DA12-0AA0	3,330

@ 10kA : Icu = Ics

2-Pole

Frame size	Current In (A)	Icu = 10kAat @415V AC		Icu = 18kA at @415V AC		Icu = 25kA at @415V AC	
		2-Pole - FTFM Article no.	Unit Price (THB)	2-Pole - FTFM Article no.	Unit Price (THB)	2-Pole - FTFM Article no.	Unit Price (THB)
3VJ10 (VJ1 125X)	16A	3VJ1096-0DA22-0AA0	2,650	3VJ1096-1DA22-0AA0	3,160	3VJ1096-3DA22-0AA0	3,330
	20A	3VJ1002-0DA22-0AA0	2,650	3VJ1002-1DA22-0AA0	3,160	3VJ1002-3DA22-0AA0	3,330
	25A	3VJ1092-0DA22-0AA0	2,650	3VJ1092-1DA22-0AA0	3,160	3VJ1092-3DA22-0AA0	3,330
	32A	3VJ1003-0DA22-0AA0	2,650	3VJ1003-1DA22-0AA0	3,160	3VJ1003-3DA22-0AA0	3,330
	40A	3VJ1004-0DA22-0AA0	2,650	3VJ1004-1DA22-0AA0	3,160	3VJ1004-3DA22-0AA0	3,330
	50A	3VJ1005-0DA22-0AA0	2,650	3VJ1005-1DA22-0AA0	3,280	3VJ1005-3DA22-0AA0	3,330
	63A	3VJ1006-0DA22-0AA0	2,650	3VJ1006-1DA22-0AA0	3,280	3VJ1006-3DA22-0AA0	3,330
	80A	3VJ1008-0DA22-0AA0	2,650	3VJ1008-1DA22-0AA0	3,280	3VJ1008-3DA22-0AA0	4,050
	100A	3VJ1010-0DA22-0AA0	2,650	3VJ1010-1DA22-0AA0	3,940	3VJ1010-3DA22-0AA0	4,110
	125A	3VJ1012-0DA22-0AA0	2,650	3VJ1012-1DA22-0AA0	3,940	3VJ1012-3DA22-0AA0	4,110
3VJ12 (VJ1 250)	160A			3VJ1216-1DA22-0AA0	5,960	3VJ1216-3DA22-0AA0	7,740
	200A			3VJ1220-1DA22-0AA0	7,740	3VJ1220-3DA22-0AA0	8,940
	250A			3VJ1225-1DA22-0AA0	7,740	3VJ1225-3DA22-0AA0	9,520

@ 10kA : Icu = Ics

Frame size	Current In (A)	Icu = 25kAat @415V AC		Icu = 36kA at @415V AC		Icu = 55kA at @415V AC	
		2-Pole - FTFM Article no.	Unit Price (THB)	2-Pole - FTFM Article no.	Unit Price (THB)	2-Pole - FTFM Article no.	Unit Price (THB)
3VJ11 (VJ1 125)	16A	3VJ1196-3DA22-0AA0	3,400	3VJ1196-5DA22-0AA0	3,470	3VJ1196-7DA22-0AA0	4,760
	20A	3VJ1102-3DA22-0AA0	3,400	3VJ1102-5DA22-0AA0	3,470	3VJ1102-7DA22-0AA0	4,760
	25A	3VJ1192-3DA22-0AA0	3,400	3VJ1192-5DA22-0AA0	3,470	3VJ1192-7DA22-0AA0	4,760
	32A	3VJ1103-3DA22-0AA0	3,400	3VJ1103-5DA22-0AA0	3,470	3VJ1103-7DA22-0AA0	4,760
	40A	3VJ1104-3DA22-0AA0	3,400	3VJ1104-5DA22-0AA0	3,470	3VJ1104-7DA22-0AA0	4,760
	50A	3VJ1105-3DA22-0AA0	3,400	3VJ1105-5DA22-0AA0	3,470	3VJ1105-7DA22-0AA0	4,760
	63A	3VJ1106-3DA22-0AA0	3,400	3VJ1106-5DA22-0AA0	3,470	3VJ1106-7DA22-0AA0	4,760
	80A	3VJ1108-3DA22-0AA0	4,140	3VJ1108-5DA22-0AA0	3,470	3VJ1108-7DA22-0AA0	4,760
	100A	3VJ1110-3DA22-0AA0	4,140	3VJ1110-5DA22-0AA0	4,180	3VJ1110-7DA22-0AA0	5,360
	125A	3VJ1112-3DA22-0AA0	4,400	3VJ1112-5DA22-0AA0	4,410	3VJ1112-7DA22-0AA0	8,940
3VJ12 (VJ1 250)	160A			3VJ1216-5DA22-0AA0	8,810	3VJ1216-7DA22-0AA0	10,400
	200A			3VJ1220-5DA22-0AA0	10,530	3VJ1220-7DA22-0AA0	12,440
	250A			3VJ1225-5DA22-0AA0	10,530	3VJ1225-7DA22-0AA0	12,440

Note: Phase barriers and Front barriers are included in the standard packing for 2-Pole.

Selection & ordering data

3-Pole - FTFM

Frame size	Current In (A)	Icu = 10kA at @415V AC		Icu = 18kA at @415V AC		Icu = 25kA at @415V AC	
		3-Pole - FTFM Article no.	Unit Price (THB)	3-Pole - FTFM Article no.	Unit Price (THB)	3-Pole - FTFM Article no.	Unit Price (THB)
3VJ10 (VJ1 125X)	16A	3VJ1096-0DA32-0AA0	3,300	3VJ1096-1DA32-0AA0	3,700	3VJ1096-3DA32-0AA0	3,750
	20A	3VJ1002-0DA32-0AA0	3,300	3VJ1002-1DA32-0AA0	3,700	3VJ1002-3DA32-0AA0	3,750
	25A	3VJ1092-0DA32-0AA0	3,300	3VJ1092-1DA32-0AA0	3,700	3VJ1092-3DA32-0AA0	3,750
	32A	3VJ1003-0DA32-0AA0	3,300	3VJ1003-1DA32-0AA0	3,700	3VJ1003-3DA32-0AA0	3,750
	40A	3VJ1004-0DA32-0AA0	3,300	3VJ1004-1DA32-0AA0	3,700	3VJ1004-3DA32-0AA0	3,750
	50A	3VJ1005-0DA32-0AA0	3,300	3VJ1005-1DA32-0AA0	3,700	3VJ1005-3DA32-0AA0	3,750
	63A	3VJ1006-0DA32-0AA0	3,300	3VJ1006-1DA32-0AA0	3,700	3VJ1006-3DA32-0AA0	3,750
	80A	3VJ1008-0DA32-0AA0	3,300	3VJ1008-1DA32-0AA0	3,700	3VJ1008-3DA32-0AA0	3,750
	100A	3VJ1010-0DA32-0AA0	3,300	3VJ1010-1DA32-0AA0	3,700	3VJ1010-3DA32-0AA0	3,750
	125A	3VJ1012-0DA32-0AA0	3,300	3VJ1012-1DA32-0AA0	4,580	3VJ1012-3DA32-0AA0	4,650
3VJ12 (VJ1 250)	160A			3VJ1216-1DA32-0AA0	4,650	3VJ1216-3DA32-0AA0	4,760
	200A			3VJ1220-1DA32-0AA0	5,960	3VJ1220-3DA32-0AA0	6,250
	250A			3VJ1225-1DA32-0AA0	5,960	3VJ1225-3DA32-0AA0	6,250
3VJ13 (VJ1 400)	320A					3VJ1332-3DA32-0AA0	14,700
	400A					3VJ1340-3DA32-0AA0	14,700

@ 10kA : Icu = Ics

Frame size	Current In (A)	Icu = 25kAat @415V AC		Icu = 36kA at @415V AC		Icu = 55kA at @415V AC	
		3-Pole - FTFM Article no.	Unit Price (THB)	3-Pole - FTFM Article no.	Unit Price (THB)	3-Pole - FTFM Article no.	Unit Price (THB)
3VJ11 (VJ1 125)	16A	3VJ1196-3DA32-0AA0	4,200	3VJ1196-5DA32-0AA0	4,290	3VJ1196-7DA32-0AA0	5,790
	20A	3VJ1102-3DA32-0AA0	4,200	3VJ1102-5DA32-0AA0	4,290	3VJ1102-7DA32-0AA0	5,790
	25A	3VJ1192-3DA32-0AA0	4,200	3VJ1192-5DA32-0AA0	4,290	3VJ1192-7DA32-0AA0	5,790
	32A	3VJ1103-3DA32-0AA0	4,200	3VJ1103-5DA32-0AA0	4,290	3VJ1103-7DA32-0AA0	5,790
	40A	3VJ1104-3DA32-0AA0	4,200	3VJ1104-5DA32-0AA0	4,290	3VJ1104-7DA32-0AA0	5,790
	50A	3VJ1105-3DA32-0AA0	4,200	3VJ1105-5DA32-0AA0	4,290	3VJ1105-7DA32-0AA0	5,790
	63A	3VJ1106-3DA32-0AA0	4,200	3VJ1106-5DA32-0AA0	4,290	3VJ1106-7DA32-0AA0	5,790
	80A	3VJ1108-3DA32-0AA0	4,200	3VJ1108-5DA32-0AA0	4,290	3VJ1108-7DA32-0AA0	5,790
	100A	3VJ1110-3DA32-0AA0	4,200	3VJ1110-5DA32-0AA0	4,290	3VJ1110-7DA32-0AA0	5,790
	125A	3VJ1112-3DA32-0AA0	7,100	3VJ1112-5DA32-0AA0	7,100	3VJ1112-7DA32-0AA0	9,240
3VJ12 (VJ1 250)	160A			3VJ1216-5DA32-0AA0	7,100	3VJ1216-7DA32-0AA0	9,820
	200A			3VJ1220-5DA32-0AA0	8,700	3VJ1220-7DA32-0AA0	10,400
	250A			3VJ1225-5DA32-0AA0	8,700	3VJ1225-7DA32-0AA0	10,400
3VJ13 (VJ1 400)	320A			3VJ1332-5DA32-0AA0	17,850	3VJ1332-7DA32-0AA0	20,780
	400A			3VJ1340-5DA32-0AA0	17,850	3VJ1340-7DA32-0AA0	20,780
3VJ14 (VJ1 630)	500A			3VJ1450-5DA32-0AA0	18,050	3VJ1450-7DA32-0AA0	25,430
	630A			3VJ1463-5DA32-0AA0	18,050	3VJ1463-7DA32-0AA0	25,430

Note: Phase barriers and Front barriers are included in the standard packing for 3-Pole.

Selection & ordering data

3-Pole - ATFM

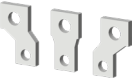
			Icu = 10kA at @415V AC		Icu = 18kA at @415V AC		Icu = 25kA at @415V AC	
Frame size	Current In (A)	Adjust Ir (a)	3-Pole - ATFM Article no.	Unit Price (THB)	3-Pole - ATFM Article no.	Unit Price (THB)	3-Pole - ATFM Article no.	Unit Price (THB)
3VJ10 (VJ1 125X)	16A	12.8-16A	3VJ1096-0DB32-0AA0	3,745	3VJ1096-1DB32-0AA0	3,940	3VJ1096-3DB32-0AA0	4,050
	20A	16-20A	3VJ1002-0DB32-0AA0	3,745	3VJ1002-1DB32-0AA0	3,940	3VJ1002-3DB32-0AA0	4,050
	25A	20-25A	3VJ1092-0DB32-0AA0	3,745	3VJ1092-1DB32-0AA0	3,940	3VJ1092-3DB32-0AA0	4,050
	32A	25.6-32A	3VJ1003-0DB32-0AA0	3,745	3VJ1003-1DB32-0AA0	3,940	3VJ1003-3DB32-0AA0	4,050
	40A	32-40A	3VJ1004-0DB32-0AA0	3,745	3VJ1004-1DB32-0AA0	3,940	3VJ1004-3DB32-0AA0	4,050
	50A	40-50A	3VJ1005-0DB32-0AA0	3,745	3VJ1005-1DB32-0AA0	3,940	3VJ1005-3DB32-0AA0	4,050
	63A	50.4-63A	3VJ1006-0DB32-0AA0	3,745	3VJ1006-1DB32-0AA0	3,940	3VJ1006-3DB32-0AA0	4,050
	80A	64-80A	3VJ1008-0DB32-0AA0	3,745	3VJ1008-1DB32-0AA0	3,940	3VJ1008-3DB32-0AA0	4,050
	100A	80-100A	3VJ1010-0DB32-0AA0	3,745	3VJ1010-1DB32-0AA0	3,940	3VJ1010-3DB32-0AA0	4,050
	125A	100-125A	3VJ1012-0DB32-0AA0	4,500	3VJ1012-1DB32-0AA0	5,000	3VJ1012-3DB32-0AA0	5,300
3VJ12 (VJ1 250)	160A	128-160A			3VJ1216-1DB32-0AA0	6,670	3VJ1216-3DB32-0AA0	6,790
	200A	160-200A			3VJ1220-1DB32-0AA0	7,330	3VJ1220-3DB32-0AA0	7,500
	250A	200-250A			3VJ1225-1DB32-0AA0	7,330	3VJ1225-3DB32-0AA0	7,500
3VJ13 (VJ1 400)	320A	256-320A					3VJ1332-3DB32-0AA0	17,850
	400A	320-400A					3VJ1340-3DB32-0AA0	17,850

@ 10kA : Icu = Ics

			Icu = 25kAat @415V AC		Icu = 36kA at @415V AC		Icu = 55kA at @415V AC	
Frame size	Current In (A)	Adjust Ir (a)	3-Pole - ATFM Article no.	Unit Price (THB)	3-Pole - ATFM Article no.	Unit Price (THB)	3-Pole - ATFM Article no.	Unit Price (THB)
3VJ11 (VJ1 125)	16A	12.8-16A	3VJ1196-3DB32-0AA0	4,660	3VJ1196-5DB32-0AA0	4,760	3VJ1196-7DB32-0AA0	5,960
	20A	16-20A	3VJ1102-3DB32-0AA0	4,660	3VJ1102-5DB32-0AA0	4,760	3VJ1102-7DB32-0AA0	5,960
	25A	20-25A	3VJ1192-3DB32-0AA0	4,660	3VJ1192-5DB32-0AA0	4,760	3VJ1192-7DB32-0AA0	5,960
	32A	25.6-32A	3VJ1103-3DB32-0AA0	4,660	3VJ1103-5DB32-0AA0	4,760	3VJ1103-7DB32-0AA0	5,960
	40A	32-40A	3VJ1104-3DB32-0AA0	4,660	3VJ1104-5DB32-0AA0	4,760	3VJ1104-7DB32-0AA0	5,960
	50A	40-50A	3VJ1105-3DB32-0AA0	4,660	3VJ1105-5DB32-0AA0	4,760	3VJ1105-7DB32-0AA0	5,960
	63A	50.4-63A	3VJ1106-3DB32-0AA0	4,660	3VJ1106-5DB32-0AA0	4,760	3VJ1106-7DB32-0AA0	5,960
	80A	64-80A	3VJ1108-3DB32-0AA0	4,660	3VJ1108-5DB32-0AA0	4,760	3VJ1108-7DB32-0AA0	5,960
	100A	80-100A	3VJ1110-3DB32-0AA0	4,660	3VJ1110-5DB32-0AA0	4,760	3VJ1110-7DB32-0AA0	5,960
	125A	100-125A	3VJ1112-3DB32-0AA0	7,200	3VJ1112-5DB32-0AA0	7,200	3VJ1112-7DB32-0AA0	9,520
3VJ12 (VJ1 250)	160A	128-160A			3VJ1216-5DB32-0AA0	9,410	3VJ1216-7DB32-0AA0	10,120
	200A	160-200A			3VJ1220-5DB32-0AA0	10,060	3VJ1220-7DB32-0AA0	10,720
	250A	200-250A			3VJ1225-5DB32-0AA0	10,060	3VJ1225-7DB32-0AA0	10,720
3VJ13 (VJ1 400)	320A	256-320A			3VJ1332-5DB32-0AA0	20,230	3VJ1332-7DB32-0AA0	21,420
	400A	320-400A			3VJ1340-5DB32-0AA0	20,230	3VJ1340-7DB32-0AA0	21,420
3VJ14 (VJ1 630)	500A	400-500A			3VJ1450-5DB32-0AA0	22,970	3VJ1450-7DB32-0AA0	26,210
	630A	504-630A			3VJ1463-5DB32-0AA0	24,520	3VJ1463-7DB32-0AA0	26,210

Note: Phase barriers and Front barriers are included in the standard packing for 3-Pole.

Accessories

Accessory	Product image	Accessory compartment/ coil voltage	Frame size				
			3VJ10 (VJ1 125X)	3VJ11 (VJ1 125)	3VJ12 (VJ1 250)	3VJ13 (VJ1 400)	3VJ14 (VJ1 630)
Auxiliary switches		Left	3VJ9018-0AN11	3VJ9218-0AN11		3VJ9417-0AN11	
		Unit Price (THB)	1,530	1,530		2,160	
		Right	-	3VJ9218-0AN21		3VJ9417-0AN21	
		Unit Price (THB)	-	1,530		2,160	
Alarm switches		Left	3VJ9018-0AA11	3VJ9118-0AA11	3VJ9218-0AA11	3VJ9417-0AA11	
		Unit Price (THB)	1,560	1,560	1,560	2,160	
		Right	-	3VJ9118-0AA21	3VJ9218-0AA21	3VJ9417-0AA21	
		Unit Price (THB)		1,560	1,560	2,160	
Auxiliary + Alarm switches		Left	3VJ9018-0AD11	3VJ9118-0AD11	3VJ9218-0AD11	3VJ9417-0AD11	
		Unit Price (THB)	1,980	2,200	2,500	2,700	
		Right	-	3VJ9118-0AD21	3VJ9218-0AD21	3VJ9417-0AD21	
		Unit Price (THB)		2,200	2,500	2,700	
Shunt trip (right)		220V AC	3VJ9018-0ST36	3VJ9218-0ST36		3VJ9417-0ST36	
		Unit Price (THB)	2,630	2,970		4,350	
Undervoltage release (left)		220V AC	-	3VJ9218-0UV36		3VJ9417-0UV36	
		Unit Price (THB)		4,830		5,330	
Extended door mounted rotary operator (including 8UC handle)*			3VJ9018-0HD11	3VJ9118-0HD11	3VJ9218-0HD11	3VJ9417-0HD11	
		Unit Price (THB)	2,720	2,720	2,900	5,490	
Extended terminals#			3VJ9011-0EC00 (1P)	-	-	-	
		Unit Price (THB)	680				
Spreader links^			3VJ9012-0ED00 (2P)	3VJ9112-0ED00 (2P)	3VJ9212-0ED00 (2P)	-	
		Unit Price (THB)	1,430	1,430	1,580		
			3VJ9013-0ED00 (3P)	3VJ9113-0ED00 (3P)	3VJ9213-0ED00 (3P)	3VJ9313-0ED00	3VJ9413-0ED00
		Unit Price (THB)	2,140	2,140	2,370	3,810	3,990
			3VJ9014-0ED00 (4P)	3VJ9114-0ED00 (4P)	3VJ9214-0ED00 (4P)	3VJ9314-0ED00	3VJ9414-0ED00
		Unit Price (THB)	2,780	2,780	3,080	4,980	5,170
MIL			-	3VJ9116-0VM10 (2P, 3P)	3VJ9216-0VM10 (2P, 3P)	3VJ9313-0VM10 (3P)	
		Unit Price (THB)		3,550	3,770	4,270	
			-	3VJ9114-0VM10 (4P)	3VJ9214-0VM10 (4P)	3VJ9314-0VM10 (4P)	
		Unit Price (THB)		3,550	3,770	4,270	
Enclosure			3VJ9016-0DE11 (2P, 3P)	3VJ9116-0DE11 (2P, 3P)	3VJ9216-0DE12 (2P, 3P)	-	-
		Unit Price (THB)	1,550	1,650	2,870		
			3VJ9014-0DE11 (4P)	3VJ9114-0DE11 (4P)	3VJ9214-0DE12 (4P)	-	-
		Unit Price (THB)	1,550	1,650	2,870		

Note:

Internal accessories are available only for 2-pole, 3-pole and 4-pole MCCBs.

3VJ9218-0ST.. shunt releases can be used with 3VJ11 (frame VJ1 125) and 3VJ12 (frame VJ1 250) only.

^ Spreader link 1 set = 2 nos. links in case of 2-pole; and 3 nos. links in case of 3-pole; and 4 nos. links in case of 4-pole.

Extended terminals 1 set = 2 nos. links.

- NA

Toggle handle extension is included in the standard packing of 3VJ13 and 3VJ14 (VJ1 400 and 630) MCCB.



SMART 7KT

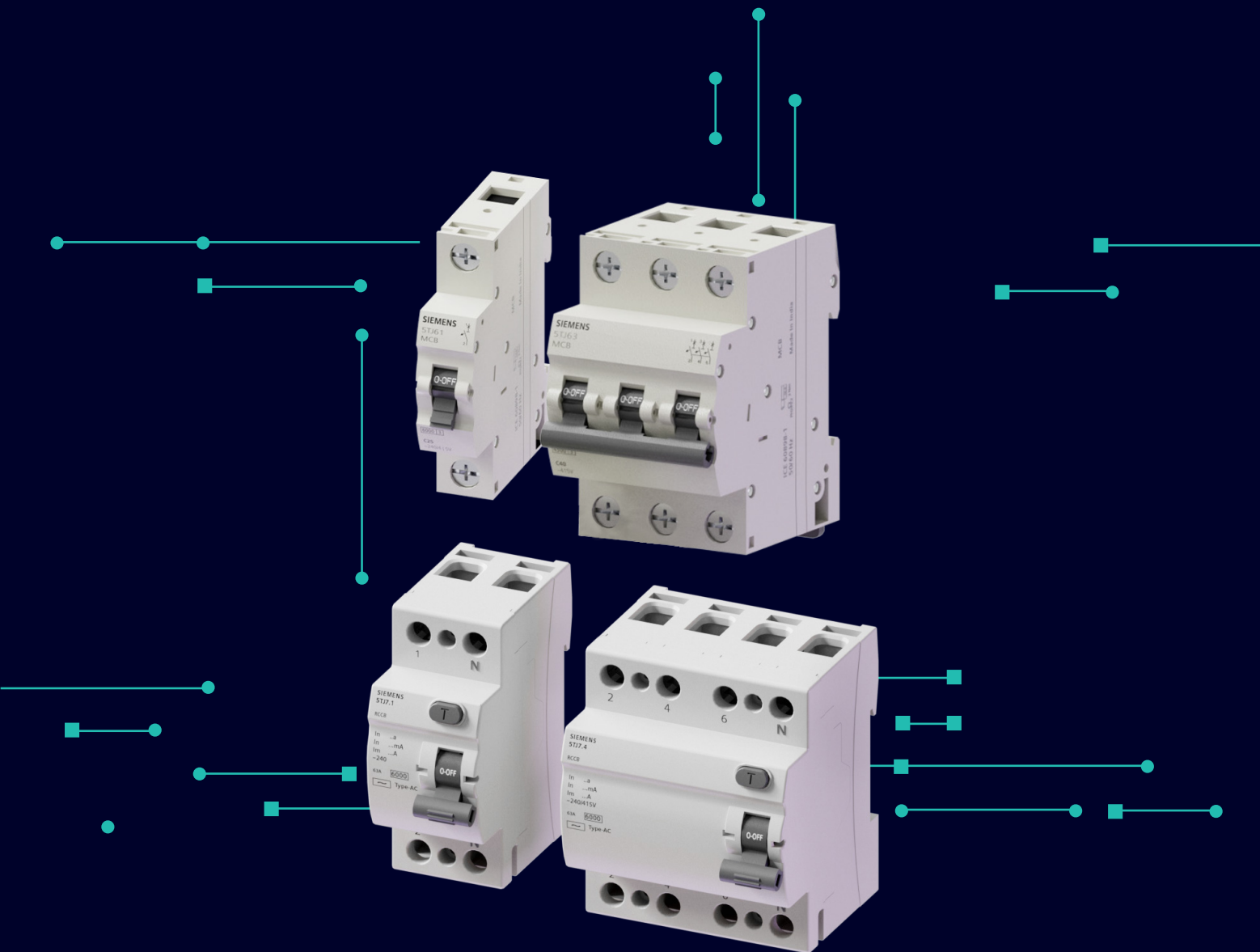
power monitoring devices

SINOVA The Power of **Simplicity**

Selection & ordering data

SMART 7KT multifunction meters

Product image	Description	Features	Article no.	Unit Price (THB)
	PMD, LED class 1, Modbus RTU, Single line	- Bright single-line LED display for easy visualization of essential energy parameters. - An integrated communication port to communicate with energy management software.	7KT0307	4,400
	PMD, LED class 1, Modbus RTU, Multi line	- Large multi-line LED display for easy visualization of essential energy parameters. - An integrated communication port to communicate with energy management software.	7KT0308	6,800
	7KT LCD Class 1, Modbus RTU	- Large backlit LCD display for easy visualization of power quality indicators. - Integrated Digital Input (DI) to communicate field signals without additional hardware.	7KT0310	8,800
	7KT LCD Class 0.5s, Modbus RTU	- Large backlit LCD display for easy visualization of power quality indicators. - Configurable Digital Input (DI) and Digital Output (DO) ports for simplified load management.	7KT0311	9,800
	VA, LED display, Class 1	Bright multi-colored LED display for easy identification of voltage and current parameters.	7KT0110	2,500
	VAF, LED display, Class 1	Large multi-line LED display for easy visualization of voltage, current and frequency parameters.	7KT0120	2,800
	3-phase energy meter Modbus RTU	- Dual source energy measurement. - An integrated communication port to communicate with energy management software. - Single line LCD display for clear visualization of essential energy parameters.	7KT0210	4,350



5TJ miniature circuit breakers and residual current circuit breakers

SINOVA The Power of **Simplicity**

Selection & ordering data

5TJ miniature circuit breakers (6kA & 10kA)

Standard: IEC 60898-1 (Characteristic: C curve)

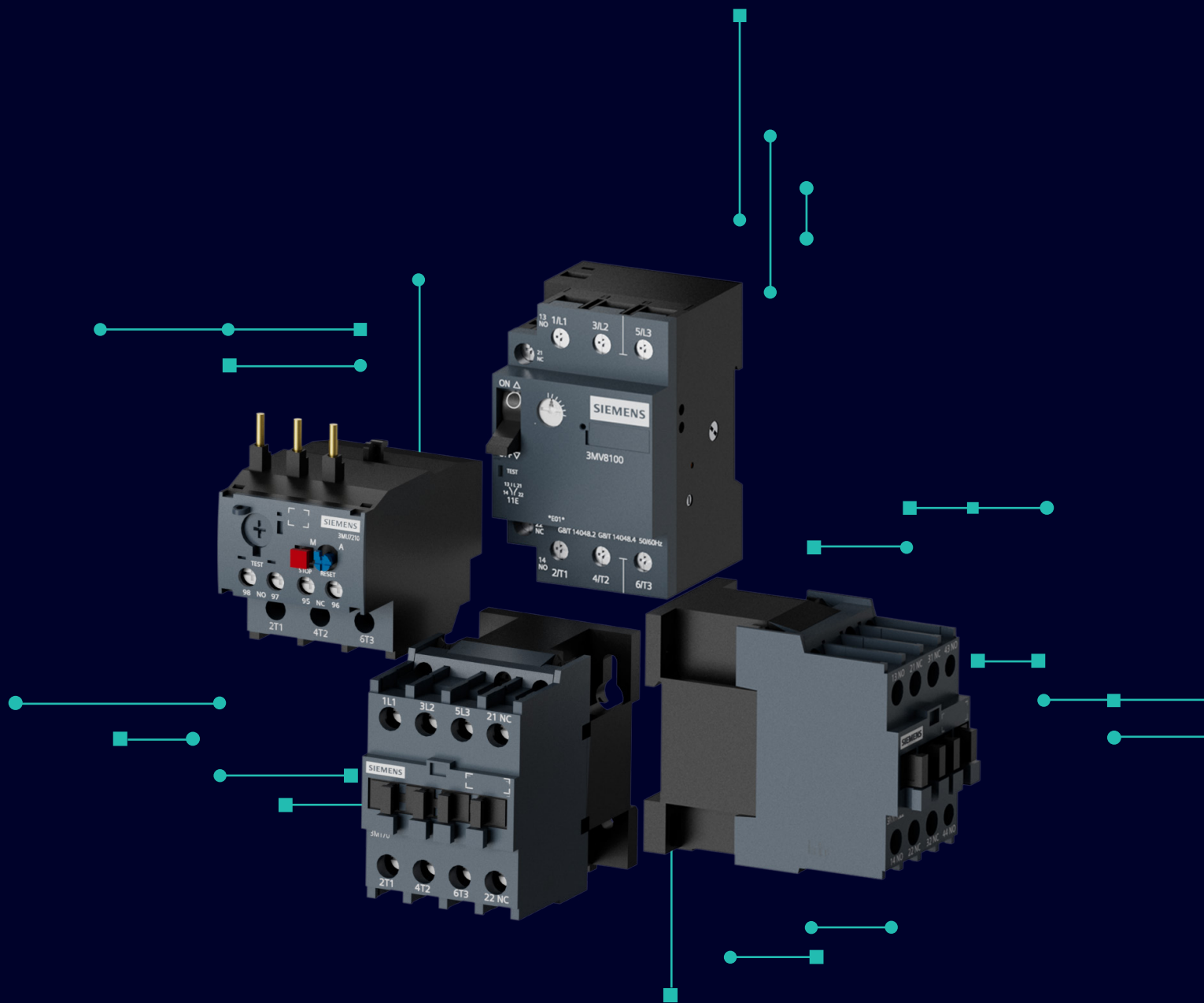
Product	In (A)	No. of poles	Characteristics C Article no.	Unit Price (THB)	Characteristics C Article no.	Unit Price (THB)
1P, 240/415v AC			Rated breaking capacity - 6kA		Rated breaking capacity - 10kA	
	6	1-pole	5TJ6106-7	170	5TJ4106-7	560
	10		5TJ6110-7	170	5TJ4110-7	560
	16		5TJ6116-7	170	5TJ4116-7	560
	20		5TJ6120-7	170	5TJ4120-7	560
	25		5TJ6125-7	170	5TJ4125-7	560
	32		5TJ6132-7	170	5TJ4132-7	560
	40		5TJ6140-7	170	5TJ4140-7	870
	50		5TJ6150-7	510	5TJ4150-7	870
	63		5TJ6163-7	510	5TJ4163-7	870
2P, 415V AC			Rated breaking capacity - 6kA		Rated breaking capacity - 10kA	
	6	2-pole	5TJ6206-7	470	5TJ4206-7	1,020
	10		5TJ6210-7	470	5TJ4210-7	1,020
	16		5TJ6216-7	470	5TJ4216-7	1,020
	20		5TJ6220-7	470	5TJ4220-7	1,020
	25		5TJ6225-7	470	5TJ4225-7	1,020
	32		5TJ6232-7	470	5TJ4232-7	1,020
	40		5TJ6240-7	470	5TJ4240-7	1,570
	50		5TJ6250-7	970	5TJ4250-7	1,570
	63		5TJ6263-7	970	5TJ4263-7	1,570
3P, 415V AC			Rated breaking capacity - 6kA		Rated breaking capacity - 10kA	
	6	3-pole	5TJ6306-7	990	5TJ4306-7	2,650
	10		5TJ6310-7	990	5TJ4310-7	2,650
	16		5TJ6316-7	990	5TJ4316-7	2,650
	20		5TJ6320-7	990	5TJ4320-7	2,650
	25		5TJ6325-7	990	5TJ4325-7	2,650
	32		5TJ6332-7	990	5TJ4332-7	2,650
	40		5TJ6340-7	960	5TJ4340-7	3,210
	50		5TJ6350-7	1,410	5TJ4350-7	3,210
	63		5TJ6363-7	1,410	5TJ4363-7	3,210
4P, 415V AC			Rated breaking capacity - 6kA		Rated breaking capacity - 10kA	
	6	4-pole	5TJ6406-7	2,380	5TJ4406-7	3,500
	10		5TJ6410-7	2,380	5TJ4410-7	3,500
	16		5TJ6416-7	2,380	5TJ4416-7	3,500
	20		5TJ6420-7	2,380	5TJ4420-7	3,500
	25		5TJ6425-7	2,380	5TJ4425-7	3,500
	32		5TJ6432-7	2,380	5TJ4432-7	3,500
	40		5TJ6440-7	3,680	5TJ4440-7	5,370
	50		5TJ6450-7	3,680	5TJ4450-7	5,370
	63		5TJ6463-7	3,680	5TJ4463-7	5,370

Selection & ordering data

5TJ residual current circuit breakers

Product	Icn (kA)	In (A)	Sensitivity					
			30mA	Unit Price (THB)	100mA	Unit Price (THB)	300mA	Unit Price (THB)
2-pole								
	6	16	5TJ7311-0	3,500	5TJ7411-0	3,800	5TJ7611-0	3,800
	6	25	5TJ7312-0	2,300	5TJ7412-0	3,800	5TJ7612-0	2,700
	6	32	5TJ7313-0	3,500	5TJ7413-0	3,800	5TJ7613-0	3,800
	6	40	5TJ7314-0	2,300	5TJ7414-0	2,700	5TJ7614-0	2,700
	6	63	5TJ7316-0	4,000	5TJ7416-0	5,000	5TJ7616-0	5,000
	10	16	5TJ8311-0	Price On Request	5TJ8411-0	Price On Request	5TJ8611-0	Price On Request
	10	25	5TJ8312-0	Price On Request	5TJ8412-0	Price On Request	5TJ8612-0	Price On Request
	10	32	5TJ8313-0	Price On Request	5TJ8413-0	Price On Request	5TJ8613-0	Price On Request
	10	40	5TJ8314-0	Price On Request	5TJ8414-0	Price On Request	5TJ8614-0	Price On Request
	10	63	5TJ8316-0	Price On Request	5TJ8416-0	Price On Request	5TJ8616-0	Price On Request
4-pole								
	6	16	5TJ7341-0	4,000	5TJ7441-0	4,500	5TJ7641-0	4,500
	6	25	5TJ7342-0	2,900	5TJ7442-0	4,500	5TJ7642-0	2,900
	6	32	5TJ7343-0	4,000	5TJ7443-0	4,500	5TJ7643-0	4,500
	6	40	5TJ7344-0	3,200	5TJ7444-0	3,900	5TJ7644-0	3,900
	6	63	5TJ7346-0	5,200	5TJ7446-0	6,000	5TJ7646-0	6,000
	10	16	5TJ8341-0	Price On Request	5TJ8441-0	Price On Request	5TJ8641-0	Price On Request
	10	25	5TJ8342-0	Price On Request	5TJ8442-0	Price On Request	5TJ8642-0	Price On Request
	10	32	5TJ8343-0	Price On Request	5TJ8443-0	Price On Request	5TJ8643-0	Price On Request
	10	40	5TJ8344-0	Price On Request	5TJ8444-0	Price On Request	5TJ8644-0	Price On Request
	10	63	5TJ8346-0	Price On Request	5TJ8446-0	Price On Request	5TJ8646-0	Price On Request

Notes



3MT7, 3MH7, 3MU7 & 3MV8

contactors, overload relays &
motor starter protectors

SINOVA The Power of **Simplicity**

Selection & ordering data

3MT7 power contactors

Size	Rated data					Article no.	Unit Price (THB)
	AC-3 at 400V at 55°C	Ratings of three-phase motors at 50Hz and 400V	AC-1 at 690V at 40°C	Auxiliary contacts			
	A	kW	A	NO	NC		
Size 0 	6	2.2	25	1	-	3MT7006-0AA10-0AP0	550
	6	2.2	25	-	1	3MT7006-0AA01-0AP0	550
	9	4	25	1	-	3MT7010-0AA10-0AP0	640
	9	4	25	-	1	3MT7010-0AA01-0AP0	640
	12	5.5	25	1	-	3MT7012-0AA10-0AP0	760
	12	5.5	25	-	1	3MT7012-0AA01-0AP0	760
Size 1 	18	7.5	32	1	-	3MT7018-1AA10-0AP0	1,100
	18	7.5	32	-	1	3MT7018-1AA01-0AP0	1,100
	22	11	32	1	-	3MT7022-1AA10-0AP0	1,300
	22	11	32	-	1	3MT7022-1AA01-0AP0	1,300
Size 2 	25	11	40	1	-	3MT7025-2AA10-0AP0	1,630
	25	11	40	-	1	3MT7025-2AA01-0AP0	1,630
	32	15	40	1	-	3MT7032-2AA10-0AP0	2,330
	32	15	40	-	1	3MT7032-2AA01-0AP0	2,330
	38	18.5	50	1	-	3MT7038-2AA10-0AP0	2,560
	38	18.5	50	-	1	3MT7038-2AA01-0AP0	2,560
	40	18.5	50	1	-	3MT7040-2AA10-0AP0	2,560
	40	18.5	50	-	1	3MT7040-2AA01-0AP0	2,560
Size 3 	40	18.5	60	1	1	3MT7040-3AA11-0AP0	2,560
	50	22	80	1	1	3MT7050-3AA11-0AP0	3,060
	65	30	80	1	1	3MT7065-3AA11-0AP0	4,480
Size 4 	70	37	125	1	1	3MT7070-4AA11-0AP0	5,500
	80	37	125	1	1	3MT7080-4AA11-0AP0	5,750
	95	45	125	1	1	3MT7095-4AA11-0AP0	6,400

Note: ... Please enter coil voltage from "Coil code (AC)" table on page no. 23.

Selection & ordering data

3MT7 power contactors

Size	Rated data					Article no.	Unit Price (THB)
	AC-3 at 400V at 55°C	Ratings of three-phase motors at 50Hz and 400V	AC-1 at 690V at 40°C	Auxiliary contacts			
	A	kW	A	NO	NC		
 Size 5	120	55	160	-	-	3MT7120-5AA00-0AP0	7,340
	140	75	160	-	-	3MT7140-5AA00-0AP0	10,400
 Size 6	170	90	210	-	-	3MT7170-6AA00-0AP0	13,500
	205	110	220	-	-	3MT7205-6AA00-0AP0	18,960
 Size 7	250	132	300	-	-	3MT7250-7AA00-0AP0	31,050
	300	160	300	-	-	3MT7300-7AA00-0AP0	35,910
 Size 8	400	200	400	-	-	3MT7400-8AA00-0AP0	43,520

3MH7 contactor relays

 3MH7031-1A..0	Operational current AC-15 at 230V AC	Contacts		Article no.	Unit Price (THB)
		NO	NC		
	6A	4	0	3MH7040-1AN20	720
	6A	3	1	3MH7031-1AN20	720
	6A	2	2	3MH7022-1AN20	720

Coil code (AC)												
Frequency	24V	36V	48V	110V	220V	230V	380V	400V	415V	165-273V*	353-455V*	550V
50Hz	B0	G0 [#]	H0	F0	M0	P0	Q0	V0	R0	S0	T0	A5 ^{##}
50/60Hz	C2	G2 [#]	H2 [#]	F2	N2	L2	Q2	V2 [#]	R2 [#]	-	-	-

Note:

*T0 and S0 wide band coils are available up to Size 2 contactors

*Not available for Size 5, 6, 7 and 8 contactors

®Available only for Size 5, 6, 7 and 8 contactors

##Compatible with 3MT7 3-pole power contactor only

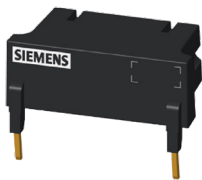
Selection & ordering data

Accessories

Auxiliary switches							
Product image	No. of auxiliary contacts		Mounting position	Compatible contactor	Maximum mountable auxiliary switches	Article no.	Unit Price (THB)
	NO	NC					
1-pole & 2-pole front auxiliary switches 	2	-	Front	Size 0, 1, 2, 3, 4	1	3MH7920-OCT10	230
	1	1				3MH7911-OCT10	230
	-	2				3MH7902-OCT10	230
4-pole front auxiliary switches 	4	-				3MH7940-OCT10	410
	3	1				3MH7931-OCT10	410
	2	2				3MH7922-OCT10	410
	1	3				3MH7913-OCT10	410
	-	4				3MH7904-OCT10	410
Lateral auxiliary switches[#] 	2	-	First left or first right		2	3MH7920-OCL10	310
	1	1				3MH7911-OCL10	310
	1	1	First left or first right	Size 5, 6, 7, 8	2	3MH79110CL21	410
			Second left or second right		2	3MH79110CL22	410

Note:

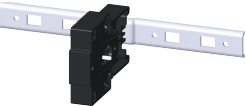
[#]Compatible with 3MT7 3-pole power contactor only

Surge suppressor Compatible with SINOVA 3MT7 3-pole power contactors					
Product image	Voltage	Mounting position	Compatible contactor	Article no.	Unit Price (THB)
Surge suppressor 	24-48V AC 50/60Hz	Between A1-A2 coil terminals	Size 0, 1, 2, 3, 4	3MT7900-1SC21	200
	110-240V AC 50/60Hz			3MT7900-1SL21	200
	380-440V AC 50/60Hz			3MT7900-1SV21	200

Selection & ordering data

Accessories

Pneumatic timer Compatible with 3MT7 3-pole power contactors Size 0, 1, 2, 3, 4							
Product image	No. of auxiliary contacts		Mounting position	Function	Timing	Article no.	Unit Price (THB)
	NO	NC			Seconds		
ON delay pneumatic timer 	1	1	Top	ON delay	0.1-3	3MT7900-OPN10	570
					0.1-30	3MT7900-OPN20	650
					10-180	3MT7900-OPN30	670
OFF delay pneumatic timer 				OFF delay	0.1-3	3MT7900-OPF10	650
					0.1-30	3MT7900-OPF20	670
					10-180	3MT7900-OPF30	700

Interlock For 3MT7 3-pole power contactors						
Mechanical interlock	Suitable for contactors Size 0, 1, 2		Suitable for contactor Size 3		Suitable for contactor Size 4	
		3MT7900-1XM01		3MT7900-1XM02		3MT7900-1XM03
		Unit Price (THB)		Unit Price (THB)		Unit Price (THB)
210		330		370		
Electro-mechanical interlock						
		3MT7900-1XE01		3MT7900-1XE02		3MT7900-1XE03
	Unit Price (THB)	Unit Price (THB)	Unit Price (THB)			
	460	570	590			

Mechanical Interlock For 3MT7 3-pole power contactors			
Product image	Contactor	Article no.	Unit Price (THB)
Mechanical interlock 	Size 5	3MT7900-1XM04	2,500
	Size 6	3MT7900-1XM05	2,500
	Size 7	3MT7900-1XM06	3,000
	Size 8	3MT7900-1XM07	3,200
	Size 5 / Size 6	3MT7900-1XM45	3,000
	Size 6 / Size 7	3MT7900-1XM56	3,000

Type	Overload relay size	Article no.	Unit Price (THB)
Relay stand-alone installation kit 	1	3MU7900-OMA10	790
	2	3MU7900-OMA20	790
	3	3MU7900-OMA30	1,810

Note: Accessories shown are only applicable to 3MU71, 3MU72 and 3MU73.

Selection & ordering data

3MU7 thermal overload relays

Size	Trip class	Rated power three-phase motor at 400V	Current setting value	Short circuit protection with fuse, type of coordination "2" (operational class gG)	Suitable for contactor size	Article no.	Unit Price (THB)
		kW	A	A			
1 	Class 10	0.04	0.10-0.16	2	0, 1, 2	3MU7110-0AA0	690
	Class 10	0.06	0.16-0.25	2	0, 1, 2	3MU7110-0BA0	690
	Class 10	0.09	0.25-0.40	2	0, 1, 2	3MU7110-0CA0	690
	Class 10	0.18	0.40-0.63	2	0, 1, 2	3MU7110-0DA0	690
	Class 10	0.25	0.63-1	4	0, 1, 2	3MU7110-0EA0	690
	Class 10	0.55	1-1.6	4	0, 1, 2	3MU7110-0FA0	690
	Class 10	0.75	1.25-2	6	0, 1, 2	3MU7110-0GA0	690
	Class 10	0.75	1.6-2.5	6	0, 1, 2	3MU7110-0HA0	690
	Class 10	1.5	2.5-4	10	0, 1, 2	3MU7110-0JA0	690
	Class 10	2.2	4-6	16	0, 1, 2	3MU7110-0KA0	690
	Class 10	3	5.5-8	20	0, 1, 2	3MU7110-0LA0	690
	Class 10	4	7-10	20	0, 1, 2	3MU7110-0MA0	710
	Class 10	5.5	9-13	25	0, 1, 2	3MU7110-0NA0	710
	Class 10	7.5	12-18	32	1, 2	3MU7110-0PA0	730
	Class 10	11	17-25	50	1, 2	3MU7110-0QA0	850
2 	Class 10	15	23-32	63	2	3MU7210-1AA0	1,000
	Class 10	18.5	28-36	63	2	3MU7210-1BA0	1,000
3 	Class 10	15	23-32	63	3, 4	3MU7310-2AA0	1,740
	Class 10	18.5	30-40	80	3, 4	3MU7310-2BA0	1,740
	Class 10	22	37-50	80	3, 4	3MU7310-2CA0	1,740
	Class 10	30	48-65	80	3, 4	3MU7310-2DA0	1,740
	Class 10	37	55-70	125	4	3MU7310-2EA0	2,090
	Class 10	37	63-80	125	4	3MU7310-2FA0	2,090
	Class 10	45	80-93	125	4	3MU7310-2GA0	4,060
4 	Class 10A		85-135A	224	Screw mounting	3MU7410-3AA1	4,930
	Class 10A		115-180A	250	Screw mounting	3MU7410-3BA1	4,930
	Class 10A		160-250A	355	Screw mounting	3MU7410-3CA1	5,170
	Class 10A		200-320A	400	Screw mounting	3MU7410-3DA1	5,780
	Class 10A		250-400A	500	Screw mounting	3MU7410-3EA1	6,200
5 	Class 10A		312-500A	500	Screw mounting	3MU7510-4AA1	8,800

Selection & ordering data

3MV81 motor starter protectors								
Product Image	Rated current	Motor power	Current setting for thermal overload	Instantaneous trip	Without Auxiliary Contact		With Auxiliary Contact (1NO+1NC)	
	(A)	(kW)	(A)	(A)	Article no.	Unit Price (THB)	Article no.	Unit Price (THB)
	0.16	0.04	0.11 ~ 0.16	1.9	3MV8100-0MB00	2,040	3MV8100-1MB00	2,160
	0.24	0.06	0.16 ~ 0.24	2.9	3MV8100-0MC00	2,040	3MV8100-1MC00	2,160
	0.4	0.09/0.12	0.24 ~ 0.4	4.8	3MV8100-0MD00	2,040	3MV8100-1MD00	2,160
	0.6	0.12/0.18	0.4 ~ 0.6	7.2	3MV8100-0ME00	2,040	3MV8100-1ME00	2,160
	1	0.25	0.6 ~ 1	12	3MV8100-0MF00	2,040	3MV8100-1MF00	2,160
	1.6	0.37/0.55	1 ~ 1.6	19	3MV8100-0MG00	2,040	3MV8100-1MG00	2,160
	2.4	0.75	1.6 ~ 2.4	29	3MV8100-0MH00	2,040	3MV8100-1MH00	2,160
	3.2	1.1	2 ~ 3.2	38	3MV8100-0NH00	2,040	3MV8100-1NH00	2,160
	4	1.1/1.5	2.4 ~ 4	48	3MV8100-0MJ00	2,040	3MV8100-1MJ00	2,160
	5	1.5/2.2	3.2 ~ 5	60	3MV8100-0NJ00	2,040	3MV8100-1NJ00	2,160
	6	2.2	4 ~ 6	72	3MV8100-0MK00	2,040	3MV8100-1MK00	2,160
	8	3	5 ~ 8	96	3MV8100-0NK00	2,040	3MV8100-1NK00	2,160
	10	3/4	6 ~ 10	120	3MV8100-0ML00	2,100	3MV8100-1ML00	2,210
	13	4/5.5	8 ~ 13	156	3MV8100-0NL00	2,100	3MV8100-1NL00	2,210
	16	7.5	10 ~ 16	190	3MV8100-0MM00	2,100	3MV8100-1MM00	2,210
	20	7.5	14 ~ 20	240	3MV8100-0MN00	2,100	3MV8100-1MN00	2,210
	25	11	18 ~ 25	300	3MV8100-0MP00	2,100	3MV8100-1MP00	2,320

3MV82 motor starter protectors								
Product Image	Rated current	Motor power	Current setting for thermal overload	Instantaneous trip	Without Auxiliary Contact		With Auxiliary Contact (1NO+1NC)	
	(A)	(kW)	(A)	(A)	Article no.	Unit Price (THB)	Article no.	Unit Price (THB)
	1.6	0.37/0.55	1 ~ 1.6	19	3MV8200-0MG00	3,920	3MV8200-1MG00	4,120
	2.4	0.75	1.6 ~ 2.4	29	3MV8200-0MH00	3,920	3MV8200-1MH00	4,120
	4	1.1/1.5	2.4 ~ 4	48	3MV8200-0MJ00	3,920	3MV8200-1MJ00	4,120
	6	2.2	4 ~ 6	72	3MV8200-0MK00	3,920	3MV8200-1MK00	4,120
	10	3/4	6 ~ 10	120	3MV8200-0ML00	3,920	3MV8200-1ML00	4,120
	16	5.5/7.5	10 ~ 16	190	3MV8200-0MM00	3,920	3MV8200-1MM00	4,120
	25	11	16 ~ 25	300	3MV8200-0MN00	4,330	3MV8200-1MN00	4,560
	32	15	22 ~ 32	380	3MV8200-0MP00	4,330	3MV8200-1MP00	4,560
	40	18.5	28 ~ 40	480	3MV8200-0MQ00	5,050	3MV8200-1MQ00	5,360
	52	22	36 ~ 52	600	3MV8200-0MR00	5,050	3MV8200-1MR00	5,360

Accessories						
Type	Product Image	Suitable for	Mounting	Auxiliary contacts	Article no.	Unit Price (THB)
Auxiliary contact		3MV81 / 3MV82	Right side	1NO+1NC	3MV9131-3AA00	320
Short circuit fault indicator		3MV81 / 3MV82	Right side	1NO+1NC	3MV9131-7AA00	630
Undervoltage release		3MV81 / 3MV82	Left side	AC230V 50Hz	3MV9132-0AB15	1,350
Undervoltage release with lead action auxiliary contacts		3MV81 / 3MV82	Left side	AC230V 50Hz	3MV9132-0AB35	1,350
Shunt release		3MV81 / 3MV82	Left side	AC230V 50Hz	3MV9132-0AB55	960

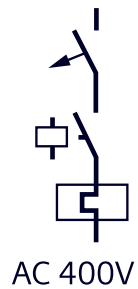
Note:

(1) Auxiliary contacts and short circuit fault indicators can be installed on the right side of the circuit breakers at the same time (the short circuit fault indicators are installed on the inside first, and the auxiliary contacts are installed on the outside). It is also possible to install only one auxiliary contact or only one short circuit fault indicator.

(2) Undervoltage release, undervoltage release with advance action auxiliary contact, and shunt release are all installed on the left side of the circuit breakers, but only one of the three can be installed at a time.

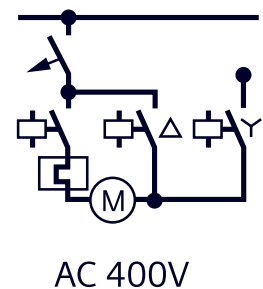
Selection table 400V AC

Direct On- Line (DOL) Starter
Motor starter protector
+ contactor
+ thermal overload relay



Motor details		Motor Starter Protector	Instantaneous trip (A)	Contactor	Contactor rating	Thermal Overload	Setting range Overload release	Unit Price (THB)
Motor Power (P)	Motor current (I)							
kW	A	Article no.	A	Article no.	A			
0.37	1.1	3MV8100-0MG00	19	3MT7006-0AA10-0AP0	6	3MU7110-0FA0	1-1.6	3,280 (2,040+550+690)
0.55	1.5	3MV8100-0MG00	19	3MT7006-0AA10-0AP0	6	3MU7110-0GA0	1.25-2	3,280 (2,040+550+690)
0.75	1.9	3MV8100-0MH00	29	3MT7006-0AA10-0AP0	6	3MU7110-0HA0	1.6-2.5	3,280 (2,040+550+690)
1.1	2.7	3MV8100-0NH00	38	3MT7006-0AA10-0AP0	6	3MU7110-0JA0	2.5-4	3,280 (2,040+550+690)
1.5	3.6	3MV8100-0MJ00	48	3MT7006-0AA10-0AP0	6	3MU7110-0JA0	2.5-4	3,280 (2,040+550+690)
2.2	5	3MV8100-0NJ00	60	3MT7010-0AA10-0AP0	9	3MU7110-0KA0	4-6	3,370 (2,040+640+690)
3	6.5	3MV8200-0ML00	120	3MT7010-0AA10-0AP0	9	3MU7110-0LA0	5.5-8	5,250 (3,920+640+690)
3.7	7.8	3MV8200-0ML00	120	3MT7012-0AA10-0AP0	12	3MU7110-0MA0	7-10	5,390 (3,920+760+710)
4	8.5	3MV8200-0ML00	120	3MT7012-0AA10-0AP0	12	3MU7110-0MA0	7-10	5,390 (3,920+760+710)
5.5	11.5	3MV8200-0MM00	190	3MT7018-1AA10-0AP0	18	3MU7110-0NA0	9-13	5,730 (3,920+1,100+710)
7.5	15.5	3MV8200-0MM00	190	3MT7025-2AA10-0AP0	25	3MU7110-0PA0	12-18	6,280 (3,920+1,630+730)
11	22	3MV8200-0MN00	300	3MT7038-2AA10-0AP0	38	3MU7110-0QA0	17-25	7,740 (4,330+2,560+850)
15	29	3MV8200-0MP00	380	3MT7038-2AA10-0AP0	38	3MU7210-1AA0	23-32	7,890 (4,330+2,560+1,000)
18.5	35	3MV8200-0MQ00	480	3MT7050-3AA11-0AP0	50	3MU7310-2BA0	30-40	9,850 (5,050+3,060+1,740)
22	41	3MV8200-0MR00	600	3MT7065-3AA11-0AP0	65	3MU7310-2CA0	37-50	11,270 (5,050+4,480+1,740)

Start delta starter
Motor starter protector
+ star (wye)-delta starting
+ thermal overload relay



Motor Rating		Motor Starter Protector	Instantaneous trip (A)	Contactor Line	Contactor Delta	Contactor rating	Contactor Star	Contactor rating	Overload relay	Setting range Overload release	Timer
Motor Power (P)	IL (A)										
kW	A	Article no.	A	Article no.	Article no.	A	Article no.	A	Article no.		Article no.
5.5	11.5	3MV8200-0MM00	190	3MT7038-2AA10-0AP0	3MT7038-2AA10-0AP0	38	3MT7006-0AA10-0AP0	6	3MU7110-0LA0	5.5-8	3RP25
7.5	15.5	3MV8200-0MM00	190	3MT7038-2AA10-0AP0	3MT7038-2AA10-0AP0	38	3MT7006-0AA10-0AP0	6	3MU7110-0MA0	7-10	3RP25
11	22	3MV8200-0MN00	300	3MT7038-2AA10-0AP0	3MT7038-2AA10-0AP0	38	3MT7010-0AA10-0AP0	9	3MU7110-0NA0	9-13	3RP25
15	29	3MV8200-0MP00	380	3MT7050-3AA11-0AP0	3MT7050-3AA11-0AP0	50	3MT7012-0AA10-0AP0	12	3MU7110-0PA0	12-18	3RP25
18.5	35	3MV8200-0MQ00	480	3MT7050-3AA11-0AP0	3MT7050-3AA11-0AP0	50	3MT7018-1AA10-0AP0	18	3MU7110-0QA0	17-25	3RP25
22	41	3MV8200-0MR00	600	3MT7065-3AA11-0AP0	3MT7065-3AA11-0AP0	65	3MT7018-1AA10-0AP0	18	3MU7210-1AA0	23-32	3RP25



7UG0 and 7PV0 monitoring relays and timers

SINOVA The Power of **Simplicity**

Selection & ordering data

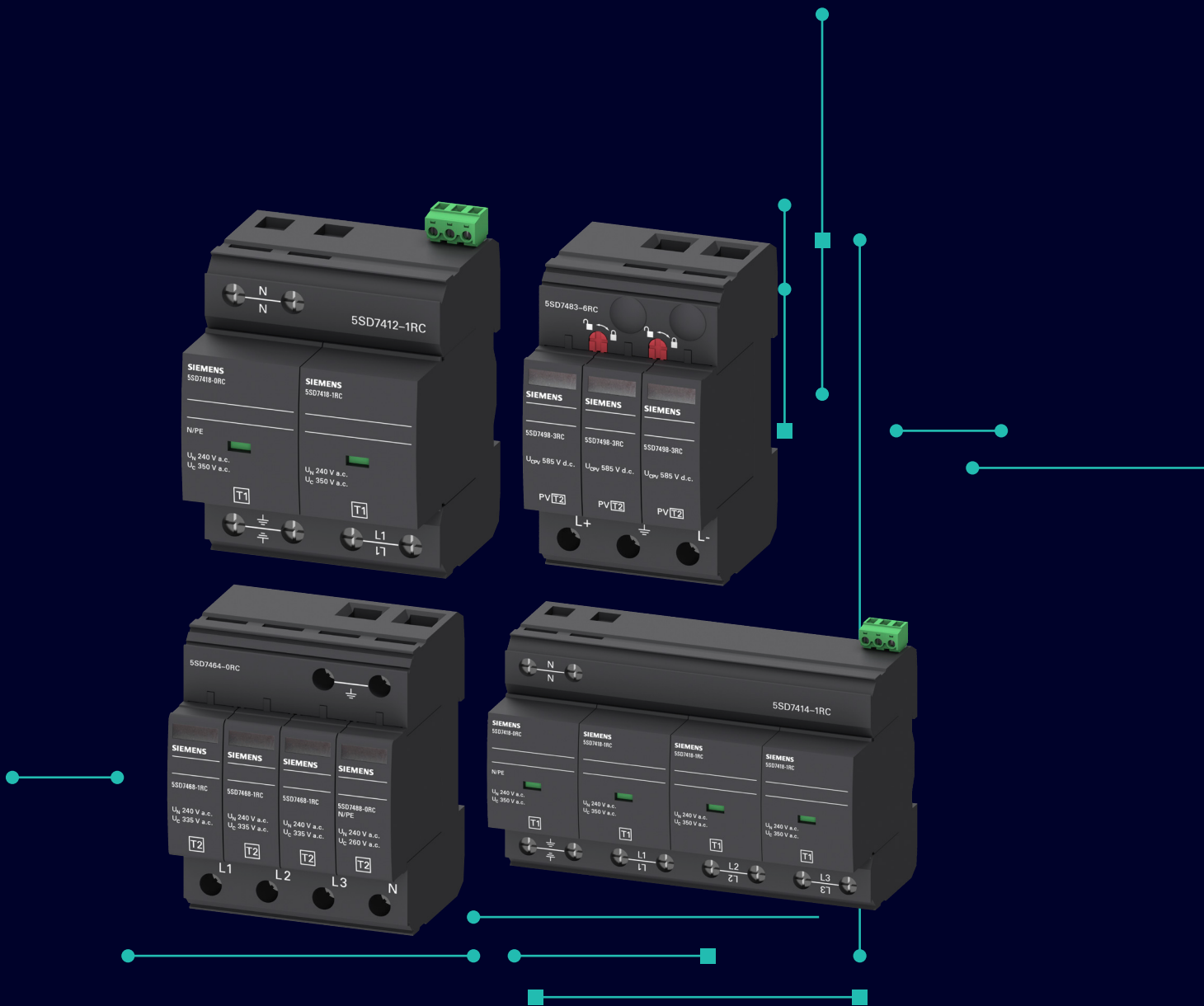
7UG0 monitoring relays

Type	Description	Contacts	Supply voltage	Width (mm)	Article no.	Unit Price (THB)
Line monitoring relay	Line monitoring relay, 3Ø - 3W	1 CO	Self powered	17.5	7UG0712-1AA20	2,100
	Digital line monitoring relay, 3Ø - 3W, 3Ø - 4W	2x 1 CO	Self powered	35	7UG0818-1CA20	3,800
Voltage monitoring relay	Voltage monitoring relay, 3Ø - 3W	1 CO	Self powered	17.5	7UG0753-1AA20	2,700
Current monitoring relay	Digital current monitoring, 1Ø - 2W	1 CO	110V AC	35	7UG0821-1AB20	3,800
	Digital current monitoring, 1Ø - 2W	1 CO	230V AC	35	7UG0822-1AD20	3,800
	Digital current monitoring, 1Ø - 2W, 3Ø - 3W, 3Ø - 4W	1 CO	110V AC	35	7UG0831-1AB20	4,500
	Digital current monitoring, 1Ø - 2W, 3Ø - 3W, 3Ø - 4W	1 CO	230V AC	35	7UG0832-1AD20	4,500
Earth leakage relay	Digital earth leakage monitoring, 1Ø - 2W, 3Ø - 3W, 3Ø - 4W	2x 1 CO	110V AC	35	7UG0841-1CB20	4,900
	Digital earth leakage monitoring, 1Ø - 2W, 3Ø - 3W, 3Ø - 4W	2x 1 CO	230V AC	35	7UG0842-1CD20	4,900
CBCT for earth leakage relay	Core balance CT 35mm				7UG0996	2,500
	Core balance CT 70mm				7UG0997	3,000
	Core balance CT 120mm				7UG0999	4,900
	Core balance CT 210mm				7UG0994	8,400
	Core balance CT 310mm				7UG0995	9,800
Temperature controlling relay	Temperature controller with PID/ON-OFF Control suitable for TC/RTD inputs	2 NO + SSR output	85 - 270V AC/DC	48	7UG0480-1IU20	4,500
Earth fault monitoring relay	Digital earth fault monitoring relay 1Ø - 2W, 3Ø - 3W, 3Ø - 4W	2x 1 CO	85 - 270V AC/DC	35	7UG0861-1BU20	5,100
CBCT for earth fault monitoring relay*	Core balance CT 160A	3P			7UG09910	2,100
		4P			7UG09911	2,300
	Core balance CT 250A	3P			7UG09912	2,500
		4P			7UG09913	2,700
	Core balance CT 630A	3P			7UG09914	3,300
		4P			7UG09915	3,500
Thermistor motor protection relay	Thermistor motor protection relay for PTC type thermistor	2x 1 CO	110 - 240V AC/DC	35	7UG0881-1BU20	2,900
Water level controller relay	Water level controller relay	2x 1 NO	110 - 240V AC/DC	35	7UG0885-1JU20	3,100
Sensor for water level controller relay	Conductive sensor probe set of 3 probes				7UG0985-0YY00	500

*CBCT for earth fault monitoring relay will be rectangular in dimension

7PV0 timing relays

Type	Description	Contacts	Supply voltage	Width (mm)	Article no.	Unit Price (THB)
ON delay	ON delay, 06 time ranges	1 CO	240V AC	17.5	7PV0712-1AD20	2,100
Multifunction	10 functions, 07 time ranges	1 CO	12 - 240V DC 24 - 240V AC	17.5	7PV0723-1AZ20	2,700
	15 functions, 08 time ranges	1 CO	20 - 240V AC/DC	17.5	7PV0732-1AV20	4,100
Star-delta Timer	Time range 1....20s	1NO delayed & 1NO INST	12 - 240V AC/DC		3RP2574-1NW30	4,390
	Time range 3....60s	1NO delayed & 1NO INST	12 - 240V AC/DC		3RP2576-1NW30	4,390



Surge Protection Devices

SINOVA The Power of **Simplicity**

Selection & ordering data

Surge Protection Devices

For protection of equipment against Lightning and Switching surges

- Standard: IEC 61643-11 / EN 61643-11
- Type 1, Type 2 and Photovoltaic surge protection
- With Remote signaling contact
- Integrated SPD health indicator

Type 1: Lightning Surge Arresters

- Maximum continuous operating voltage U_c : 350V



Reference No.	Rated voltage	Pole	Module width	Total I_{imp} (10/350 μ s)	I_{max} (8/20 μ s)	Remote status	Unit Price (THB)
5SD74121RC	240V AC	1P+N	4	50kA	50kA	Yes	14,500
5SD74141RC	240/415V AC	3P+N	8	100kA	50kA	Yes	27,900

Type 2: Surge Arresters



Reference No.	Rated voltage	Pole	Module width	U_c	I_{max} (8/20 μ s)	Remote status	Unit Price (THB)
5SD74610RC	240V AC	1P	1	335V AC	20kA	No	2,100
5SD74640RC	240/415V AC	3P+N	4	335V AC	40kA	No	7,300

Surge Arresters for Photovoltaic Application

On the DC side, over voltage protection is required for the inverters which can be ensured by using 5SD74836RC.
On the AC side, the over voltage protection can be ensured using surge arresters Type 2 (5SD7461-0RC/5SD7464-0RC)



Reference No.	Rated voltage	Pole	Module width	U_{cpv}	I_{max} (8/20 μ s)	Remote status	Unit Price (THB)
5SD74836RC	1170V DC	L+ and L-	3	1170V DC	40kA	No	5,200



Technical specifications

Technical data and limit values		Premium Cap	Standard Cap
Standards IEC 60831-1+2, EN 60831-1+2, UL 810 5th edition			
Overvoltage	$V_{\max}$	VR + 10% (up to 8 h daily) / VR + 15% (up to 30 min daily) / VR + 20% (up to 5 min daily) / VR + 30% (up to 1 min daily)	
Overcurrent	$I_{\max}$	Up to $2.0 \cdot IR$	up to $1.3 \cdot IR$ (up to $1.5 \cdot IR$)
		including combined effects of harmonics, overvoltages and capacitance tolerance	
Inrush current	I_s	up to $500 \cdot IR$	up to $200 \cdot IR$
Losses			
• Dielectric		< 0.2 W/kvar	< 0.2 W/kvar
• Total		Approx. 0.35 to 0.45 W/kvar	< 0.45 W/kvar
Rated frequency	f	50/60 Hz	
Capacitance tolerance		– 5% / +5%	
Test voltages, terminal / terminal	V_{TT}	$2.15 \cdot VR1$, AC, 2 s	$2.15 \cdot VR$, AC, 2 s
Mean life expectancy	$t_{LD(CO)}$	240,000-220,000h Tc 40/D 200,000-220,000h Tc 40/60	up to 150,000 h Tc 40/C up to 115,000 h Tc 40/D
Ambient temperature		–40/60; max. temp. +60 °C; max. mean 24 h = +50 °C; max. mean 1 year = 35 °C; lowest temperature = –40 °C	
Cooling		natural or forced	
Humidity	H_{rel}	max. 95%	
Altitude		max. 4000 m above sea level	
Mounting position		upright / horizontal	upright
Safety		Self-healing technology, 3 phase overpressure disconnecter maximum allowed fault current 10,000 A in accordance with UL810 standard	
Discharge module		ceramic discharge module or discharge module block	discharge module, integrated in terminal
		external discharge module for > 660 V	
Case		extruded aluminum can	
Enclosure		IP20, indoor mounting (optionally with terminal cap for IP54)	IP20, indoor mounting
Dielectric		polypropylene film	
Impregnation		inert gas, Soft resin (higher 415V)	biodegradable soft resin, semi-dry
Terminals	25 mm ² cable cross-section	safety terminal with electric shock protection (IP20), max	screw terminal, max.
Certification		cUL file # E238746, GOST	-
Number of switching operations		Max. 15000	Max. 5000
switchings per year according to IEC 60831-1+2			

Selection & ordering data

Standard Cap 3-phase

Rate Voltage	Output in KVA _r	Capacity	Standard Cap			
	50Hz	in μ F 3 x	Dimensions D xH (mm.)	weight kg.	Ordercode MLFB	Unit Price (THB)
400 V AC	15	99.5	75 x 275	1.4	4RB7150-3EA50	6,090
	20	132.5	85 x 275	1.8	4RB7200-3EA50	7,800
	25	166	85 x 350	2.2	4RB7250-3EA50	8,610
415 V AC	15	92	75 x 275	1.5	4RB7150-3EB50	6,090
	20	123	85 x 275	1.7	4RB7200-3EB50	7,800
	25	166	85 x 350	2.2	4RB7250-3EB50	8,610
	30	154	96 x 350	2.7	4RB7300-3EB50	9,670
440 V AC	15	82	75 x 275	1.4	4RB7150-3EE50	6,090
	20.8	114	85 x 275	1.7	4RB7208-3EE50	7,800
	25	137	85 x 350	2.2	4RB7250-3EE50	8,610
	30	164	96 x 350	2.7	4RB7300-3EE50	10,180
525 V AC	20.8	80	85 x 350	2.2	4RB7208-3FC50	7,800
	25	96	85 x 350	2.2	4RB7250-3FC50	8,610
	30	115	96 x 350	2.7	4RB7300-3FC50	9,670

Premium Cap 3-phase

Rate Voltage	Output in KVA _r	Capacity	Premium Cap			
	50Hz	in μ F 3 x	Dimensions D xH (mm.)	weight kg.	Ordercode MLFB	Unit Price (THB)
400 V AC	15	100	85 x 218	1.2	4RB8150-3EA10	7,800
	20	133	100 x 224	1.7	4RB8200-3EA10	10,180
	25	165	116 x 192	1.9	4RB8250-3EA10	10,450
	Premium Cap Heavy Duty					
	40	265	136 x 233	3.7	4RB8400-3EA20	18,500
	50	332	136 x 312	5.0	4RB8500-3EA20	20,230
415 V AC	15	93	85 x 200	1.1	4RB8150-3EB10	8,470
	20	124	100 x 207	1.6	4RB8208-3EB10	10,320
	25	154	116 x 192	1.9	4RB8250-3EB10	10,980
440 V AC	15	83	85 x 218	1.2	4RB8150-3EE10	8,470
	20	110	100 x 207	1.6	4RB8200-3EE10	10,180
	25	137	116 x 192	1.9	4RB8250-3EE10	10,580
	30	165	125 x 192	2.3	4RB8300-3EE10*	11,900
	Premium Cap Heavy Duty					
	40	219	136 x 217	3.7	4RB8400-3EE20	18,500
	50	274	136 x 279	4.5	4RB8500-3EE20	20,230
525 V AC	15	58	85 x 218	1.2	4RB8150-3FC10	7,020
	20	77	100 x 224	1.7	4RB8200-3FC10	9,530
	25	97	116 x 207	2.1	4RB8250-3FC10	10,580
	30	116	125 x 207	2.4	4RB8300-3FC10**	11,900
	Premium Cap Heavy Duty					
	40	154	136 x 233	3.7	4RB8400-3FC20	20,230
800 V AC	15	25	100 x 224	2.1	4RB8150-3JA20	12,690
	20	33	116 x 224	2.8	4RB8200-3JA20	14,280
	25	41	116 x 224	2.8	4RB8250-3JA20	15,470

* Discharge time ≤ 75 V in 90 s ,Temperature class deviation -40/C max. 50 °C

** Temperature class deviation -40/B max. 45 °C

Selection & ordering data

Automatic Power Factor Correction Relay (APFC relay)

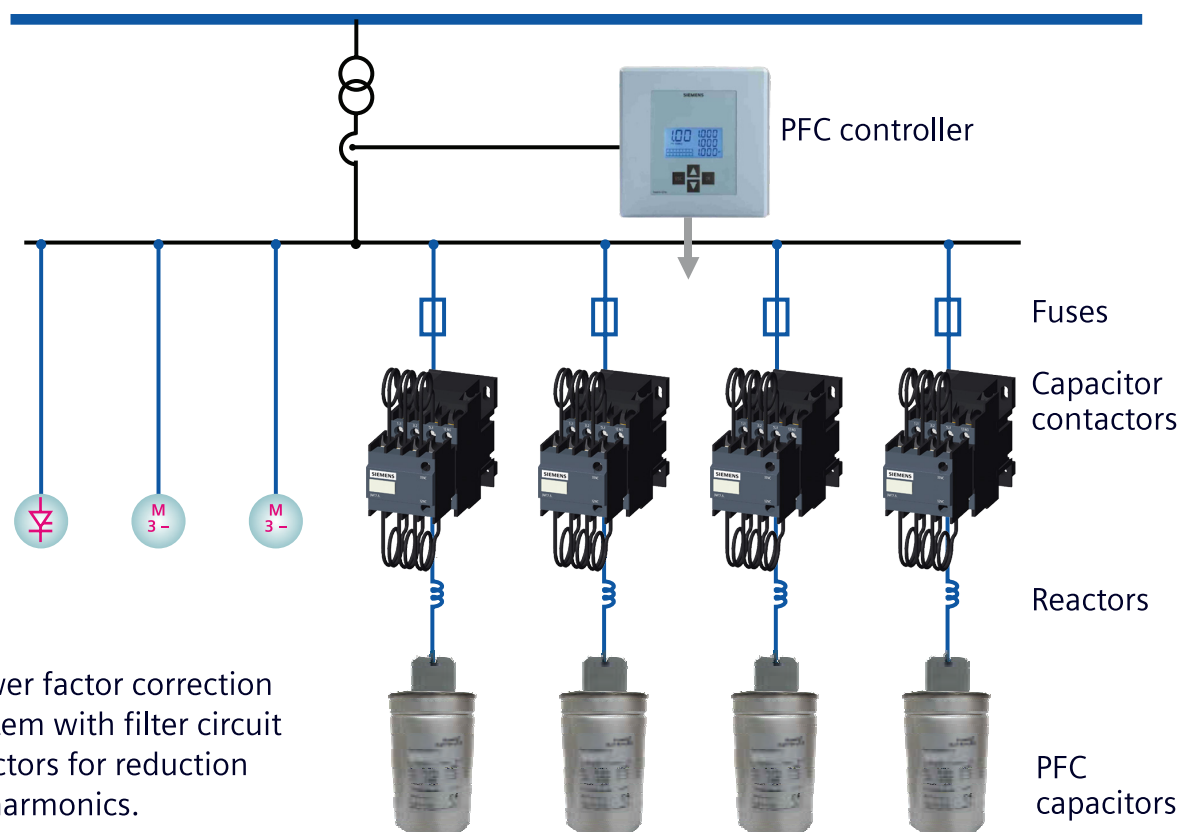
Features

- Easy accessibility of parameters
- Universal control supply—optimizing the no of variants
- Automatic/ Linear/ Rotational switching modes of banks
- Selectable 1A/ 5A current input
- LCD version with RS485 Communication MODBUS RTU Protocol
- Confirms to IEC 60947-5-1, carry CE and RoHS Compliant



Article No.	Description	Unit Price (THB)
7UG05721GT20	• Intelligent 12 stage relay controls • Dual color Backlight LCD display • RS485 Communication MODBUS RTU Protocol	20,800
7UG05721GT21	• Intelligent 12 stage relay controls • 4 digit 7 segment LED display	13,700

Typical power factor correction circuit diagram



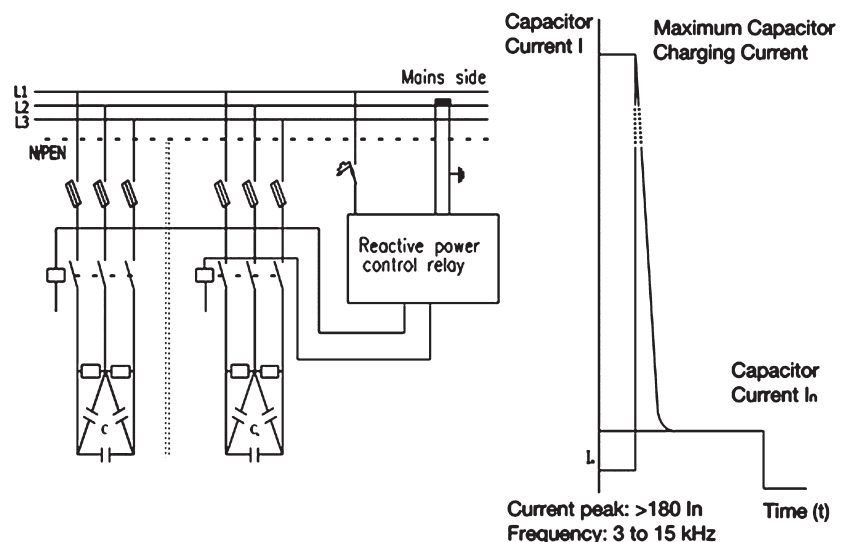
Selection & ordering data

Capacitor Duty Contactors

Capacitor kvar 440V, 3Ph, 50Hz	Built-in aux. contacts	Article No.	Unit Price (THB)
2.5kVAr	1NO	3MT70002JA106AN2	2,060
	1NC	3MT70002JA016AN2	2,060
5kVAr	1NO	3MT70005JA106AN2	2,060
	1NC	3MT70005JA016AN2	2,060
7.5kVAr	1NO+1NC	3MT70007JA116AN2	3,210
	2NC	3MT70007JA026AN2	3,210
10kVAr	1NO+1NC	3MT70010JA116AN2	3,210
	2NC	3MT70010JA026AN2	3,210
12.5kVAr	1NO+1NC	3MT70012JA116AN2	3,210
	2NC	3MT70012JA026AN2	3,210
16.7kVAr	1NO+1NC	3MT70016JA116AN2	3,650
	2NC	3MT70016JA026AN2	3,650
20kVAr	1NO+1NC	3MT70020JA116AN2	4,080
	2NC	3MT70020JA026AN2	4,080
25kVAr	1NO+1NC	3MT70025JA116AN2	4,930
	2NC	3MT70025JA026AN2	4,930
33.3kVAr	1NO+2NC	3MT70033JA126AN2	6,430
40kVAr	1NO+2NC	3MT70040JA126AN2	8,930
50kVAr	1NO+2NC	3MT70050JA126AN2	10,180
60kVAr	1NO+2NC	3MT70060JA126AN2	12,020
75kVAr	1NO+2NC	3MT70075JA126AN2	13,930
80kVAr	1NO+2NC	3MT70080JA126AM0	15,450
100kVAr	1NO+2NC	3MT70100JA126AM0	20,660

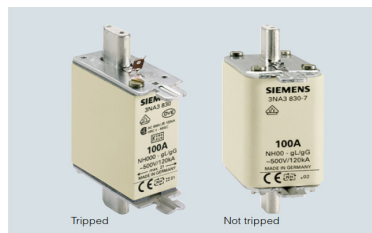
Operation

Siemens 3MT7 capacitor duty contactors are specially designed to meet stringent requirements of capacitor switching as deliberated above. These contactors are fitted with front- mounted block of 3 early make auxiliary contact in series with quick discharge damping six-resistors-2 per phase to limit peak current to value within contactor making capacity. The damping resistors are activated via early make auxiliary contacts before the main contacts close. During switching, after attenuation of the peak current, they are decoupled again.



Selection & ordering data

HRC Fuses



Overview

LV HRC fuse systems are used for installation systems in non-residential, commercial and industrial buildings as well as in switchboard assemblies of power utilities. They therefore protect essential building parts and systems.

The components and auxiliary equipment are designed in such a way as to ensure the safe replacement of LV HRC fuse systems or isolation of systems.

LV HRC fuse links are available in the sizes 000, 00, 0, 1, 2, 3, 4 and 4a.

Benefits

LV HRC fuse links with combination front indicator the tripping of a fuse. This enables identification and replacement of the tripped fuse links. This increases system availability.

LV HRC fuse links are always equipped with silver-plated contact pins. This means that they are non-corroding and have less contact resistance. This ensures the long-term operational safety of the plant.



HRC Fuse			
SIZE	Rating @500V	Ordercode MLFB	Unit Price (THB)
000	50A	3NA3820	410
	63A	3NA3822	
	80A	3NA3824	
	100A	3NA3830	
00	125A	3NA3832	520
	160A	3NA3836	550
1	200A	3NA3140	1,160
	250A	3NA3144	

LV HRC fuse bases			
SIZE	Type	Ordercode MLFB	Unit Price (THB)
000/00	1-pole terminal screw	3NH3030	1,991
	3-poles + 2 partitions	3NH4030	3,980
1	1-pole terminal screw	3NH3230	4,601
	3-poles	3NH3230 x 3	

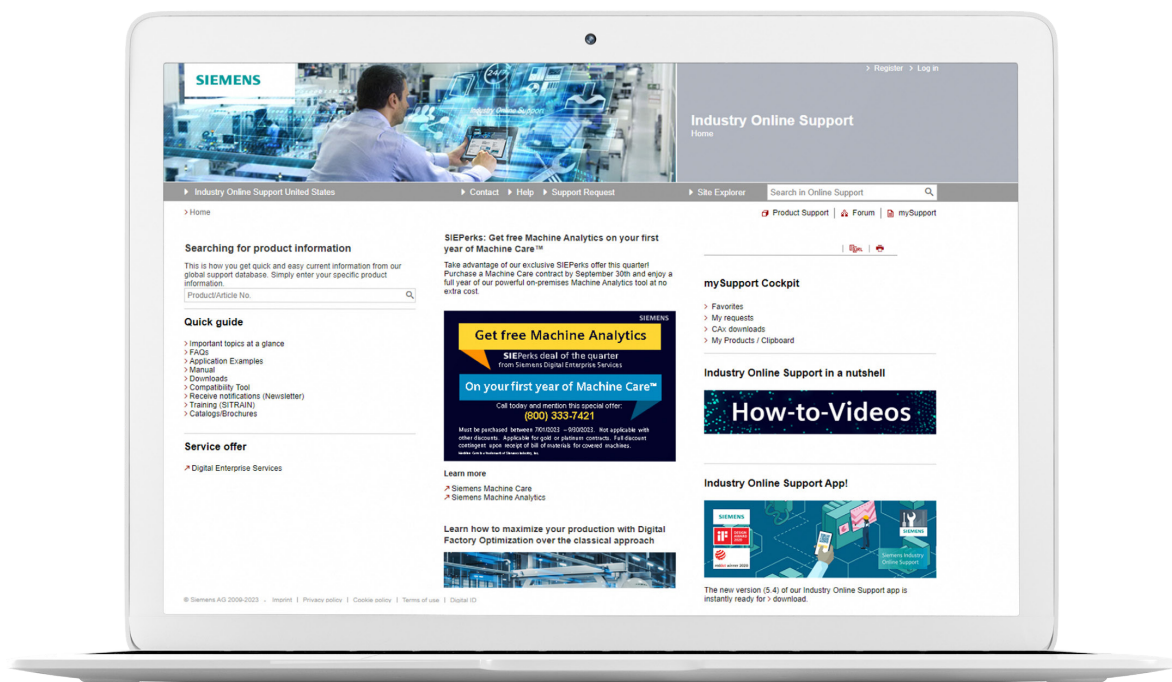


LV HRC fuse bases			
SIZE	Type	Ordercode MLFB	Unit Price (THB)
000 to 3	Fuse pullers	3NX1013	2,053

LV HRC fuse bases			
SIZE	Type	Ordercode MLFB	Unit Price (THB)
000	fuse switch disconnectors	3NG1002	850
00		3NG1102	1,810
1		3NG1202	1,970

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